

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [15117] 38 Special -- Tuning range
Message-ID: <33347aaf.63481368@smtp.usit.net>

Now that the 38 Special is producing RF, I found with the 4.7uH choke (standard) my tuning range was from 102 to 120. I changed the choke to a 6.8uH, and now the tuning range is 068-113. Coverage went from 18kHz to 45kHz!

Now, the question: I haven't seen anybody with a range this low trying to bring it up. The trimmer cap in series with D3 solution seems best to me (since it tends to preserve the swing better), but the value listed in one post I saw was a 5-45pF. Will this value bring mine up that far? (I need to move up 32kHz!). I also have no way of measuring these caps, so a way to identify them would also be helpful.

Tnx much!

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [15072] 38 Special almost lives ...
Message-ID: <33306da9.122186640@smtp.usit.net>

The 38 Special almost lives. Replaced the IRF510, and the squeal went away. Nice hiss! Still no RF, though. Began backtracking per Ori's debug sheet, determined I'm back at the crystal filter. Probably won't check it tonight, but perhaps tomorrow. Seem to be on the homestretch now ...

I assume checking the crystal filter involves the same things I've checked so far -- looking at the schematic, measuring components where possible, and checking for continuity and ground shorts around the X2 crystal (in between U1 and U2, basically).

Got a nice AM signal on several of the test points, particularly U2!
Good 'ol 1310, WDXI, jackson. Brought back fond memories for me --
I was an air personality (disc jockey) there for three years while
in high school. Now, it's a completely automatic talk station ...

72 es 73 de=20

Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
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From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: kb0rol@juno.com (Bradley L Mugleston)  
Subject: [15069] 38 Special Help  
Message-ID: <19970318.213516.7735.0.kb0rol@juno.com>

OK, I've checked the voltages from Paul Harden's list and all seem  
alright BUT pin 11 of U4 is at 0 not 7.8.

I only checked my voltages on receive - should I check on transmit also?

To recap my problem - everything seems to work alright - noise on my  
headphones but no real signal. When I touch VR1 I pick up a local radio  
station 830 AM.

Thanks for the help and thanks for the FOX hunt.

Brad Mugleston - KB0ROL  
Colorado QRP Club # 170, QRP-L #316, ARRL  
QTH - Aurora, CO - DM79oq  
KB0ROL@JUNO.COM  
BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: Wayneb1103@aol.com  
Subject: [15082] 38S T/R switch  
Message-ID: <970319023511\_853140487@emout08.mail.aol.com>

I think I pretty well have this circuit worked out in my mind except for the

D1,D2 switching. I can see on transmit that the signal coming into B, passes thru D1 then through R3. The arrows in the schematic are vary misleading but I can see that with key-down U2 is enabled to use U3 as the transmit mixer.

Where I am having trouble is with the receive side. With D2 like it is I cant see the signal getting from B to C2.

Second, there is an uncircled R- at the bottom of D7. I dont quite understand the point of D7. Is it to protect the base of TR1 from a voltage being generated that is greater than the threshold voltage of D7?

In the same area I have a note that on pin 11 of U4A there should read 7.3V on rcv and 3.5V on xmt. I dont see how that is possible considering the presence of C25. What am I missing here?

I am still out to lunch on the D4, D5 thingy. When I figure out the question I'll ask it :)

People keep talking about books. I would like to see a book talking "Why I did this." For instance, R3 is 1.3K, why? There is 2.2K or 1K or 5.6K, why not one of them? If you were to say that it is what I happen to have on hand at the time, I can live with it. But is it demanded by the circuit than I am missing something. Actually missing a lot. There were no classes in design and I hate being ignorant. I'm venting now, think I best go to the away.

If I would learn to keep my mouth shut nobody would realize how stupid I be but I was blessed with a big mouth.... :)

Thanks

Wayne        WB7WHI  
Spokane, Wa.

From owner-qrp-1@Lehigh.EDU    Wed Mar 19 18:04:36 1997  
From: "Steve Hurst" <shurst@magiclink.com>  
Subject: [15052] 38S's by the hundreds !  
Message-ID: <199703190048.TAA79572@nss2.CC.Lehigh.EDU>

Gang,

Just finished a QSO with N9DD in South Bend , Ind.

Tom answered my CQ. He was using his 38 Special and I was using my

Kenwood TS-430s at 100w. Tom gave me a 579, he was a 449 here !

After I found out he was QRP, I cut back on the pwr to 2 watts. He gave me

a 449 and we carried on with the QSO for a while. Then the QSB got the best

of us. Tom's 38er really sounded GREAT ! Mine is working , but I had it un-

hooked and didn't want to loose him while I was hooking it back up, so just

cut back on the output with my 430s to give Tom two way QRP QSO ! Lots of fun working all the 38 Specials on the band ! I tried and tried over the

weekend to make some contacts with my 38er, got two. Band condx. were

not that great :-), and the 300 mW's just didn't cut it ! Tom must have done the

5 watt mod to his , as he stated that he was running 3 watts to a loop ant.

Thanks Tom for the QSO , hope to meet you other 38er/QRP'ers out there

soon !!

73,  
Steve Hurst  
KA7NOC  
shurst@magiclink.com  
<http://www.magiclink.com/web/shurst>  
You just gotta love Ham radio !!!

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: n4js@amsat.org  
Subject: [15113] : ARK4  
Message-ID: <XFMail.970319175639.n4js@amsat.org>

ordered my ARK4 on Sunday Night (Fax). It arrived Tuesday! Fantastic service. I just read the manual and am VERY impressed. This kit is going to take a while.



antenna heaven!

OH....One little potential glitch is I see 80' tower about a mile away...ARRRUG! but It looks like he lost his TH6DXXX in a wind storm...cuz it's in pieces on the ground...and looks like it's been there for some time. Probably a QRO nut! But that's ok I'll just have to use good rx design and tight cw filters when he's on, maybe or maybe a QRPper possibly! Currently, where we live in town I'm using a dog leg dipole for 40m in the attic feed with 300 ohm twinlead it seems to get out ok but rarely get a sig report over 459 when the bands are good! And most of the time there's a S5 noise level from neighbors dimmer switches! I can't believe what the future holds!!! YAAAAH00000! Steve

-----  
"Just doing it" - Havin'a blast buildin'& usin' QRP gear that is...  
n0tu/hw8/49er/SW40/38s/solar/backpack-mobile... QRP-L # 911  
My homepage - <http://www.webaccess.net/~S&P> ARS# 206 CQC# 394

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: af852@rgfn.epcc.Edu (William R Colbert)  
Subject: [15071] antenna products co.  
Message-ID: <9703190435.AA13301@rgfn.epcc.Edu>

Re: Mark's posting about Antenna Products co out of Mineral Wells.  
They are good people to do business with altho the prices are QRO.  
The company is geared to providing the Defence Department with  
lightweight antennas from dipoles, to sloping Vee Beams and transportable  
Log Periodic antennas (6-30 Mhz). They are considered lightweight as  
the tower, rotator and RLPA come in at under 1300 pounds. (tower is  
aluminum as is the box for the rotator (part of the tower framework)  
and the lp.) Before retirement, I had two of the RLPA systems at  
the office, plus a rosette of 5 Vee beams, arranged in a circular  
pattern to cover all major compass points. A Vee beam with 505 feet  
on each leg does wonders on all bands from 160 thru 10 meters.

--

Ray Colbert, W5XE, SOWP 1064M, 00TC 3618, FISTS 2146  
El Paso, Tx

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: /PN=Dave.Ackrill/0=Westwood45/@powergen.co.uk  
Subject: [15078] APRS and QRP  
Message-ID: <970319061858Z\*/G=Dave/S=Ackrill/0=Westwood45/PRMD=POWERGEN/

ADMD=CWMAIL/C=GB@MHS>

Dear All,

After seeing some messages about APRS and its use on HF and VHF/UHF, I have decided to have a go. So I've got a dual port (HF and VHF/UHF) TNC and the DOS version of the APRS program (The Windows version wont work on my PC at present).

Now I'm trying to find someone local to try the system out with. Unfortunately, I don't have any 144MHz or 432MHz FM gear, although I could get a 70MHz FM rig on the air if necessary. I understand that there is some 10 MHz activity which I might look out for, but are there any other frequencies that I might try?

All of which will be used with less than 5W CW or 10W SSB of course. (That raises the problem of whether Packet is a CW or an SSB mode, as I suppose it depends whether you use FSK or AFSK HI!)

In order not to under-utilise my new gear, is there anyone out there using AMTOR/PACTOR/G-TOR or Packet on HF or VHF QRP? According to the manual I could even use RTTY (now that would take me back a bit!) or even, good grief, CW (wonder if I can get it to display the CW I send from my key or keyer as well as the received CW? - Might be useful for public demonstration at special event stations, which have been difficult to set up a monitor system for in the past)

Any help gratefully received, as I think that APRS might be a useful mode for setting up propagation beacons on, provided that stations remain active for long enough of course,

Cheers de Dave (G0DJJA)

"How far that little candle throws its beams!" Merchant of Venice  
Act 5

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Gary R. Widmayer" <grwidma@edcen.ehhs.cmich.edu>  
Subject: [15112] Autek Research QF-1A  
Message-ID: <33306A22.5EF6@edcen.ehhs.cmich.edu>

I have an Autek QF-1A, ssb/cw/am filter for sale. This unit is in like new condition and has maybe 20 hours of operating time on it.

Unit has aux.notch, lowpass/hp/notch/peak, selectivity and freq control

from 250hz to 2500hz.

Would like \$27.00 for unit and I will pay shipping.  
(the case and knobs are worth the asking price)

Please email direct only.

Gary/N8AYY

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: Scott Bauer <ke3nv@erols.com>  
Subject: [15080] Beacon 6.966 at 0615z  
Message-ID: <199703190617.BAA20374@smtp1.erols.com>

FYI

A beacon is transmitting on 6.966 time 0615z, call is FDI22  
559 in MD.

Scott

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: mike wood <K6MW@server.worldinfonet.com>  
Subject: [15107] beam current balun suggestions ?  
Message-ID: <333046E5.63BC@server.worldinfonet.com>

I am in the process of refurbishing my A3 tribander and also bought a new length of CQ flexi from the Wire man...The limited bending radius for the new coax prevents me from using the time tested method of creating a 1:1 current balun by coiling 9 winds of coax on top of the tower.

I am interested in hearing what other options I have. Is a 1:1 current balun really necessary on a tribander?

The easiest fix appears to be using the W2DU method of using ferrite beads over the coax jacket, but I am unable to find beads with a .50 OD...Does anybody know of a source?

There are lots of smaller cores around but using them would force me to use a smaller stub of coax to use them, thus a splice in the run.

Any imaginative ideas would be appreciated.



73, mike

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "John A. Evans - N3Q00" <jaevans@cos.cst.titan.com>  
Subject: [15075] Chasing Indiana !!  
Message-ID: <199703190522.AAA86492@nss2.CC.Lehigh.EDU>

Wow - I heard N9DD on 30m and 40m but couldn't nab him - too close to some louder signals. Finally called WD4MSM (Meritorious Service Medal) and he came back to me, then sent the question mark on some things I couldn't hear. Half way through the QSO I figured out the proper code for D versus G in his call, so it is possible that he felt I messed up his call.

For me, being pretty new to all this, I felt there was a lot of noise and QRM. Hope I got all the info across - I got all his info. Barry - thanks for hanging in there with me, even if it may not have been enough.

72 de n3qoo in colorado

-----  
John A. Evans                      Chief System Administrator  
Office: (719) 528-1800 x164              Titan Client/Server Technologies  
Fax:        (719) 528-1275              1115 Elkton Dr, Suite 200  
email:    jaevans@cos.cst.titan.com    Colorado Springs, CO 80907-3535  
-----

Norcal   #262   QRP-L   #219   QRP-ARCI   #8303   NE-QRP   #213   CQC   #045  
CQrp     #15    NJ-QRP   #50    AK-QRP     #52    NW-QRP   #454  
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>  
-----

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: PDouglas12@aol.com  
Subject: [15094] FDIM Vendor Program  
Message-ID: <970319111948\_-603892106@emout09.mail.aol.com>

Gang,

Following is a list of the Vendors who have accepted our invitation to be introduced and show some of their wares at the Friday night time slot (~9:30pm) following the QRP banquet at the Days Inn South, Dayton:

Wilderness Radio

Small Wonder Labs  
Embedded Research  
Kanga US  
S & S Engineering  
Jade Products  
Norcal

These vendors are likely to have some interesting new products, if prior years are any indication.

I have received a few regrets, and I still have to hear from another 15 vendors, some (many?) of whom will likely say yes. If there are QRP vendors here on QRP-L who have not received an invitation, please let me know and I will resend yours or send an original if I somehow missed your company! I will keep the group posted as the list grows.

72,

Preston WJ2V  
FDIM Vendor Chair

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Len W. Tough" <len@infinet.com>  
Subject: [15060] First QRP/M QSL arrived today  
Message-ID: <199703190309.WAA23542@mail1.infinet.com>

Hey gang,

This may not seem exciting to the list, but about 6 months ago, I worked a few European DX stations while driving in Kentucky and monitoring CW on 30 meters. I normally have the S&S Tac 1 with me, but forgot the rig that morning and was forced to go with a 30m qrp rig I had in the trunk. Well, around 1 pm, the band opened and I heard a few DX stations. I gave them a call and worked them with 5 watts. Got the first QSL today. Not too bad for QRP/m, eh?

Still exciting after all these years. The QSL card has my call and /QRP/M circled in red ink. I believe the DX operator thinks he copied wrong! heh heh. After all, who is crazy enough to try working DX with 5 watts mobile??

Best 72/3  
Len  
KG8SF

len@infinet.com

KG8SF@key.com

---

QRP-L # 841            CQrp # 2            ARCI # 9025            FISTS # 2134

HF Digital Communications - CW/Pactor/G-Tor/RTTY/Amtor

CHARTER MEMBER - THE COLUMBUS QRP CLUB - \*CQrp\*

Web Page: <http://www.infinet.com/~len>

QRP Homebrew Rigs = OHR 400, S&S TAC-1, NORCAL 38S, SWL GM-15,  
Kanga Any Band Xmitter, Bare Essential 50c5 Xmitter

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From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: Bill Myers <bjmyers@arc.net>

Subject: [15065] For Sale or Trade: SOLD

Message-ID: <1.5.4.16.19970318215519.26872a4e@mail.arc.net>

The Drakes are sold. Wish I'd had a dozen sets, they would have all sold.

If, for some reason, this deal falls through (and I don't see that happening), I'll notify the next one on the list.

Thanks to all...

72/73's

Bill KK4KF

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: "Dean Marzocca" <n2tnn@ifu.net>

Subject: [15062] FOX explanation

Message-ID: <199703190329.WAA20470@mail.ifu.net>

Hi Randy,

Well, you misssd it for this season. Here are the details:

Last year about August I was new to the list and saw a posting from Chuck Adams, the list "BIG BOSS". He was taking operators to play the FOX role. I asked if I could give it a try and he put me in the lineup. There are two

foxes per week, usually on Tues and Thurs night. This goes on all winter on the 40 meter band around 7.037 +/-.

I ran one week in October and this past week was my second try at it. What the fox does is to call CQ FOX on a pre-announced frequency and waits for the hounds to answer the call. As a fox you try to work as many hounds as possible and as a hound you try to work as many foxes throughout the season. My first attempt I had 27 QSOs and this time around I had 31. That isn't bad for me but some of the guys were in the hundreds. I will get there some day but I need to improve the antenna farm. The best part of the FOX hunt is that Chuck spaces out the foxes so they are in a different part of the country each week. For me as FOX, I work mostly AZ, CA, TX, CO and OK. I never hear any east coast stations and on most nights I never hear the fox. I might hear the hounds but propagation will only let some of us make the contests.

It is a great program to get us all on the air and to work on our code speed. I also had the opportunity to meet some of the guys here on the list and to increase my WAS state count. I have fun with the cards and reading ones from the others.

I am sorry you missed out on the FOX season but we will be back next winter. Now is the time we all move to 30 meters to conduct our TMPS (Thirty Meter Propagation Study). Most of the ops here on the list will be in the 10.116 range and the object is to work as many stations until you can't work any more. There are over 1000 of us on the list and you have to work them all!!!

More details will be posted by the boss when the time comes, so just wait it out and we will start when the time is right.

Thanks for the question and hope to catch you on the air. Some of the other guys might add something to this post or correct me if I am wrong, so stand by.....

72, Dean N2TNN  
n2tnn@ifu.net

> Dean,  
>  
> For some of us newbies can you give an explanation of the fox hunts?

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
Subject: [15051] fox schedule

Message-ID: <199703190025.RAA06258@lynx>

Re this from Chuck...

>>Remember that W1EAT is  
the fox Tuesday nite and Cam later in the week. He  
needs to post the particulars again and then that's it  
<<

Would that be tonight? I've got Cam's particulars, but hadn't  
seen anything about W1EAT.

73  
Marshall Emm  
AA0XI/VK5FN

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
Subject: [15056] Fox tonight (Tuesday)  
Message-ID: <199703190124.BAA16268@chuck.dallas.sgi.com>

Yes, Tom WA1GUV a.k.a. W1EAT (new call) will be on 0200-0400Z  
tonight. Good luck to all.

Cam, N6GA will be on tomorrow night (Wednesday) and that's it  
for this year.

For the foxhunt this season is what I really mean. We'll  
start back up on the foxhunt, fifth season I think, in Oct.

TMPS starts May 1 until August 31st and if anyone doesn't  
know the abbreviation TMPS, hold on and we'll bring it up  
middle of next month. Just get your 30M and 17M rigs up and  
running.

dit dit  
Chuck Adams K5FO adams@sgi.com DXCC=14  
[http://reality.sgi.com/employees/adams\\_dallas/](http://reality.sgi.com/employees/adams_dallas/)

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>  
Subject: [15055] FOX tonight?

Message-ID: <970319011418\_70511.3041\_IHD89-3@CompuServe.COM>

Gang:

The sked shows a FOX for tonight 0200-0400 = Tom WA1GUV. Is this correct? Perhaps there have been posts about this, but if so I missed them.

Would really appreciate assistance with this. Thanks.

72/73,

--Doc/K0EVZ QRP-L 861 MN-qrp 19 NJ-qrp 69 AK/qrp 139 cqc norcal arrl

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: tahrens1@juno.com  
Subject: [15063] FOX: Cloaking Device Backfire  
Message-ID: <19970318.212758.4895.1.tahrens1@juno.com>

OK guys - who turned the fans on high? I think the cloaking device went too far east, and didn't go off the gulf coast. Think Tom must be totally blitzed by it!?

No fox in Austin tonight, but did snag AB7TT & N9DD.. somebody else was calling me when I was talking to a W8, but didn't catch the call. Even heard N1MG, & somebody chatting with K5F0, although Chuck was too weak to hear down here.

Well, back to figuring out the keying offset problem with my 38s.... wondered why that W6 last night kept coming back zero beat! hehe

cu all tomorrow!

Tim W5FN

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: VEQF47A@prodigy.com (MR DAVID M LOCKARD)  
Subject: [15079] FS. DRAKE TR4-C  
Message-ID: <199703190510.AAB58872@mime3.prodigy.com>

I have a drake station for sale.  
Drake TR4-C with matching MS4 speaker/power supply and cables  
Drake W4 200/2000 watt wattmeter  
MFJ audio notch filter  
original manuals  
D-104 mike and straight key  
100 new tubes including matched trio of 6JB6 finals, not all tubes  
are for drake  
muffin fan for cooling final section

all in excellent condition.

Price is \$400.00 plus shipping firm

phone number is 810-228-2157 or e-mail me at VEQF47A@prodigy.com

Dave KG8WH QRP-L #589 72/73

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: ALK0FRP@aol.com  
Subject: [15085] FS: analyzer-keyer  
Message-ID: <970319080245\_1351521545@emout17.mail.aol.com>

fore sale

MFJ 207 antenna analyzer \$50.00 PP conus 48

Autek MK-1 keyer \$30.00 PP 48 four memories. AC/DC operation.

AL K0FRP qrp-l 366 , CQC 32 , AK 73

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: ALK0FRP@aol.com  
Subject: [15106] FS: analyzer-keyer  
Message-ID: <970319144412\_-2074035416@emout02.mail.aol.com>

In a message dated 97-03-19 08:10:20 EST, you write:

<<

MFJ 207 antenna analyzer \$50.00 PP conus 48

Autek MK-1 keyer \$30.00 PP 48 four memories. AC/DC operation.

AL K0FRP qrp-l 366 , CQC 32 , AK 73

Both are SOLD Thank You

AL K0FRP

>>

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>  
Subject: [15067] FS:QRP items  
Message-ID: <970319035753\_70511.3041\_IHD56-1@CompuServe.COM>

Gang:

I have FS several excellent QRP items:

Ramsey QRP "twins" = VXO QRP-40 40m xmtr \*plus\* 40 meter rcvr

-> Both for only \$30.00 complete, ready to go. Includes shipping in  
the continental USA

MFJ MFJ-722 "Optimizer" CW/SSB filter. \$45.00 includes shipping in  
continental USA. Listed at \$79.95 in catalog.

MFJ MFJ-752C "Signal Enhancer II". \$60.00 including shipping in  
continental USA. Catalog lists it at \$99.95.

Datong ANF audio filter. \$35.00 including shipping continental USA.

All items in excellent like-new condition, and come with manuals.

72/73,

--Doc/K0EVZ qrp-1 861 mn-qrp 19 nj-qrp 69 ak/qrp 139 cqc norcal arrl

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Glenn E. Scott" <scotty@facade.adm.clarkson.edu>  
Subject: [15084] helical antenna  
Message-ID: <CFB1DC0AC7@FACADE.ADM.CLARKSON.EDU>

Hi gang,

I have been contemplating on building a helical wound antenna for  
portable qrp use. Something like the "Outbacker", but less costly.



After making all my qrp equipment this past winter it doesn't seem practical to spend \$400 dollars on an antenna. I don't have that much in the rest of my gear.

I will be using it while camping. Most of the places we go camping don't always have trees that are available without asking your neighboring camper if you can string some wire accross his campsite. The problem that I am having, where can I find information on helical wound antennas. Someone said that one of the old arrl antenna handbooks had some information in it but I have not been able to locate one to use. There must be some rule of thumb for the turns spacing and size of wire to use. Does anyone know where I can look up information on this subject ? Is there any place on the Web?

Thanks in advance.

" 73 " N2ULU (GLENN SCOTT)

QRP-L #403, NE QRP #448, NCARC

Scotty@facade.clarkson.edu

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: Jeff Grudin <grudin@pacific.vdbs.com>

Subject: [15108] Help please for the engineeringly impaired.

Message-ID: <3330464B.5476@pacific.vdbs.com>

QRP Amateur Operators of the List: (aka: QRP-heads)

I have been appointed to write a column on QRP in our club newsletter. One of the things that we want to get across is that building is fun. I would like to take a simple QRP rig and explain how it works. This would be instructive on radio art as well as qrp.

My problem is I am engineeringly impaired. I was wondering if anyone on the group would be willing to help me to understand some things I don't understand about the circuit so that I can accomplish this task.

The circuit we have selected is the Pixie II. The reason being that it is a very simple circuit, and it would be very inexpensive to play with (ie. we might be able to get some members into trying to build one). The rig has also recently been demonstrated to the club by a guest speaker.

It probably wouldn't take much time (there aren't that many parts Hi Hi). So if anyone would be willing to help me, I sure would appreciate it. If you are familiar with the circuit, I'm sure that would help. I have the schematic in a GIF file that I can send if needed.

Thanks. Maybe we can convert a few more!

--

73 de Jeff AC6KW  
grudin@vdbbs.com

---

|                  |                                           |
|------------------|-------------------------------------------|
| QRP-L #16        | Private Practice : Companion Animals and  |
| Exotics          |                                           |
| Norcal QRP #1292 | Ocean Animal Clinic / Cat Clinic of Santa |
| Cruz             |                                           |
|                  | Santa Cruz,                               |
| California       |                                           |

QRP'ers do it with less energy (but lot's of enthusiasm)!

---

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Jeff M. Gold" <JMG@tntech.edu>  
Subject: [15098] Kit decision  
Message-ID: <01IGONWECE8Y8WXY3@tntech.edu>

OK,

I am considering a new kit.. need my therapy!!!

was thinking about:

- 1) Small Wonders Green Mountain CW
- 2) Emtech (built one of the Dan's not one direct)
- 3) Ten Tec- but worried the filter is 1 Khz. Doesn't that make it a really hard to use rig?
- 4) Oak Hills new single band.. seems to have a lot of stuff

I want a good receiver, good filtering, good keying and no surprises.

comments are welcome!!!!

72,

Jeff

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: Joe Gervais <vole@primenet.com>  
Subject: [15061] MIA FOX but WAS 50/40 going strong  
Message-ID: <199703190317.UAA24109@usr05.primenet.com>

Howdy Folks,

Well at 0315 UTC the Fox is still a no-show here in AZ,  
but if you head on up to 7.042 and 7.044 you'll find  
WD4MSM and N9DD for WAS 50/40. Go get 'em!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"QRP, Unix, MST3K and Babylon 5: The Four Pillars of Nerdvana" - Me

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Jeff M. Gold" <JMG@tntech.edu>  
Subject: [15100] N38S-for sale soon  
Message-ID: <01IGONYWNTRC8WXY3@tntech.edu>

Well, just about to order a new kit before something else in the  
house breaks-

I have a N38S. It has the Tick and 5 watt mod. It has been tuned  
and tested. It is in a blue metal case made out of board material.  
The case has some places that if you are a perfectionist, you will  
repaint. There is also extra holes in the bottom of the case (had  
a different radio inside it). It has a S0239 connector in the back  
for antenna, two wires coming out for power (no connector) and the  
stereo key jack. In the front it has a large knob for tuning, the  
push button for the Tick keyer, and a small knob that is for RF  
control and also an on/off switch (I like a switch). There is a  
small 8 ohm built in speaker, there appears to be enough volume to  
drive this.

I may consider selling it without case if someone wants the board  
with mods only. Probably have about \$65 or so in it with all  
connectors and additional parts, including case. I would want to  
keep it for another week or so and then would be willing to ship  
it to new home.

72  
Jeff, AC4HF

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Carol N. Wright" <cnw@HiWAAAY.net>  
Subject: [15059] NC38S, ALMOST!  
Message-ID: <Pine.OSF.3.94.970318201430.23799C-100000@fly.HiWAAAY.net>

Hey Gang,  
I would like to thank everyone for trying to help me get my 38 Special on the air. I am just about there. I replaced my IRF510, that cut out the squealing. I now also get out about 5 watts. First time for that out of this rig. Now, sometimes I get a bunch of noise coming in through the headphones. It is usually when I move something around, like the power connector, maybe a loose connection? We're almost there. I can feel my first QSO coming vrn. Best 72 DE Matt, AE4JM AGN, mny tnx fer great help!

--  
JCARC--ARCI 9178--ARRL--ARRL ORS--Ten Ten 66932--VP 2855--WAS  
Matt Wright, ph. (205)228-6547, packet: AE4JM@K4BFT.#HSV.AL.USA.NA  
email: cnw@HiWAAAY.net snail mail:8679 Co. Rd. 19, Section, AL 35771  
Rigs built: Ramsey mini rcvr-40mtrs, NC38S, SW30-40, NC49'er, NC40A with KC1

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Brian K. Short KE7GH" <ke7gh@primenet.com>  
Subject: [15091] New server features  
Message-ID: <3.0.1.32.19970319153015.00717bc8@mailhost.primenet.com>

QSL.NET user,

A few new additions to the server for you to use....

We now have FormMail...this is a method that you can have a visitor to your page fill in a form and it automatically creates feedback to him while at the same time mails a copy of the form to you

Examples of this on the system now are at:

<http://www.qsl.net/signup.html>  
<http://www.qsl.net/vamars>

+++++

We now have our own counter on the system....

Examples of how to use a counter on your page can be found at :

<http://www.qsl.net/Count2ex.html>

The HTML code for your page will look something like this

```
<center>
This page has been visited
    NOTE: XXXXXX is
your login name
since March 18, 1997                                           Example: mine
is k3tkj.dat
</center>
```

See the example page above for many customizing features, color, size, fonts, clock, date ,etc.

See a working counter at <http://www.qsl.net>

```
+++++
+++
```

Daniel, KC40XP has a swap,sell,buy page running that needs users see:

<http://www.qsl.net/kc4oxp1>

```
+++++
+++
```

Special thanks to:

Wayne, K3AP (long time friend and Brother-in-Law) for the programs and advice

Daniel, KC40XP for the FTP page and his help with your problems

Dave, N8IQV for his fine HTML work on the various pages

```
+++++
+++
```

Tell a friend about QSL.NET we need more users!!

73,

Al K3TKJ

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: timcook@erinet.com  
Subject: [15110] OHR-400/DD-1 SOLD  
Message-ID: <3330604B.5C58@erinet.com>

Thanks to all who responded, it has found a new home.  
NZ8J

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: bcutter@teal.csn.net (Bob Cutter)  
Subject: [15096] QRP ARRL Publicity  
Message-ID: <199703191709.KAA18368@mailrelay.csn.net>

The QRP SSB rig and article this month in QST should do a lot to put to rest the questions of ARRL attitude toward QRP. You cannot buy that kind of good publicity.

72, Bob KI0G

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: Jess Gypin <jessqrp@concentric.net>  
Subject: [15058] Running QRP mobile can have it's moments.....  
Message-ID: <332F4CFB.1D77@concentric.net>

Hi all,

I was on the way to work this morning and called CQ on about 10116 a few times. I have found that with a memory keyer this is much easier. Gives me time to sip the coffee;-). I was calling and who should answer but K4TWJ ol' Dave. we chatted a moment and he asked if I was QRP mobile and what was the rig? I told him Knwd TS140 and hamstick at 5 watts. He asked why are you running 5 watts and not 100W? I said what? He said why are you running just 5 watts? I said because I work only QRP. He said good for you! and had to QRT. This was at about 6:30 am Denver time. I also worked a station N5NVM in Texas and K8EHE. Not too bad for a 20

minute ride to work!

Best  
Jess NOTFI

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: jim <kw3u@warwick.net>  
Subject: [15095] shack cleaning  
Message-ID: <333018A8.42DA@warwick.net>

Hi all;

Had a chance to do a bit more cleaning, and turned up a few more items that someone might want to make an offer on:

RYAN xmtr / exciter board sw-1 40meters. just add 12v,ant,key, and xtal for 1 1/2 ~ 2w out. bought two and only used one. this is unopened in box with 4 page instructions/schematics suggestions. they work great. \$25.00

Heathkit reflected power meter model hm-15; looks very good no scratches...and HD-1426 relative f.s. meter excellant looking... offer??

Wooden box signal tracer -- Model ca-11 from Superior instruments Co. 2" signal intensity meter - probe with wooden handle --box in pretty good condx.....again I have no clue .. offer??

Lastly 3 maxon 49-h5 units (5channell 49mhz fm) I got at hamfest for some unknown reason. \$20 sound ok???

thats it for now. thanks for bandwidth.  
Jim kw3u

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: "Jeff M. Gold" <JMG@tntech.edu>  
Subject: [15102] Sierra unbuilt?  
Message-ID: <01IGOP2WR9HA8WXY3@tntech.edu>

Well,

already got back a number of comments. I guess what I really want is an unbuilt Sierra that I can afford. Just missed the one that went for sale.. get the postings too late.

anyone have an ubuilt Sierra (I would really like 20,30,40 meters  
80 might be interesting). I have stuff to trade and that cash  
stuff also :-)

72

Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: Jess Gypin <jessqrp@concentric.net>  
Subject: [15074] TE NE KE info again.  
Message-ID: <332F78A8.C2D@concentric.net>

Hi all,

The link to the TE NE KE file on my web page was busted and missing. I  
have fixed that so if you want the info on how to order the key

<http://www/concentric.net/~jessqrp>

For those without browsers here it is anyway

TE-NE-KE Paddle Ordering Information

Below is the copy from the ad for the TE-NE-KE

NE KE Mobile paddle has a little brother, the TE NE KE  
Swing Away Paddle. Swings in for transport and out to use  
with 1 thymb screw. Brass, aluminum and beryllium copper  
construction on a chrome base (mine was brass plated)  
made from steel. Small, very small. \$39.00

Evenings call Boyd N8VKA (616)837-7182  
NE KE Products  
8297 Cleveland  
Coopersville, MI 49494

I have no pecuniary interest in this product. This information  
is provided for information purposes only. I am just a  
satisfied customer. Please tell Boyd where you heard  
about the key if you call to place an order!

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997



From: schell@radonc.medinfo.rochester.edu (Michael C. Schell)  
Subject: [15104] TenTec 288 or 285 filters  
Message-ID: <v01540b05af55ce19a448@[128.151.18.51]>

Hello,

Anyone want to sell these filters? Please respond by email. Thanks and  
73's Mike KF2LF

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: mdwatt@usit.net (Marty Watt)  
Subject: [15116] The dead now live ... a NorCal 38 Special Saga  
Message-ID: <333268d2.58908317@smtp.usit.net>

Scene opens with unshaven man, obviously having not showered in  
weeks, in tattered lab coat, hunched over kitchen table with wire  
and various test equipment ...

MANTHING: "BBWWWWWAAAAAHHAAAAHAHAHAH! It lives! My creation lives!"

(Hands thrown triumphantly in the air, head back"

A lady enters ...

LADY: "What's that, dear?"

MANTHING: "My creation! It lives! Bwwwwaaahhhahahahaha!"

LADY: "That's nice, dear. Dinner is ready."

(Fade to Black)

Yes, folks, the latest 38 Special lives. After numerous calls to  
mouser for parts, trips to radio shack, and countless e-mails, the  
38 Special has good ears and pumps out a whopping 5 watts on the  
dot. Tuning range is from 10.102-10.120 with the 4.9uH choke and no  
RIT mod.

The final obstacle was the same as the original "no audio" problem.  
A bad pin connection on one of the IC's. In the audio problem, it  
was pin 6 of U5. In the crystal filter case, it was pin 4 of U1.

So that others can benefit from my mistakes: I originally soldered

the IC's to the board. After zapping the rig, I figured the IC's were shot, and I'd socket them while replacing them. Unsoldering IC's isn't an easy task, and in the process, I bugged up these particular pins. The holes and the PC trace (in each case) lost contact with one another.

Lesson: Socket the IC's! Unless you are quite confident of your abilities in construction, socketed IC's are mandatory, IMHO.

Mike K1MG provided the primary "breakthrough" when he told me pin 6 of U5 to ground should be about 900 ohms. I had megaohms! That gave me the insight to trace the connections, each and every one, from pin 6 of U5 to ground. When the problem with U1 pin 4 came up, that was a piece of cake!

Much thanks to Mike. More thanks to Glen, who held my hand through daily, sometimes multiple times per day, e-mail exchanges, and encouraged me to debug this one in the first place. I'm deeply indebted.

Now, should I change the choke or not? Ah, why not!

BTW, used an audio taper pot for tuning. The linear taper pot had over 90 deg of rotation covering \*maybe\* 3kHz. Audio taper is much smoother ...

72 es 73 de=20  
Marty, KM7W

-----  
Jackson, Tennessee e-mail: mdwatt@usit.net  
http://www.public.usit.net/mdwatt  
"The Curmudgeon's Corner"  
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq  
~~~~~

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: Joe Gervais <vole@primenet.com>
Subject: [15076] The worst day fishing is better than...
Message-ID: <199703190534.WAA09592@usr05.primenet.com>

Howdy Folks,

Wow - what a night! Couldn't find any Fox RF in my rcvr,
but stumbled across NL7SA in Wasilla, AK working a QRPer.

Figured what the heck and tail-ended him with AB7TT/QRP.
Milo came back, wanted to know how much power I was
running, chatted about the wx, then politely went QRT.

That would've been enough, but then Tim W5FN called me
asking for a signal report - was worried his keying was
too soft. Didn't sound too bad to me. Chatted a bit, signed
off, then ran smack into Mike K1MG who reminded me about
the WAS 50/40 gang. So I headed up a little higher and
worked Barry WD4MSM and Tom N9DD. Took a dinner break, came
back to the rig and heard WA2BQI/QRP calling CQ. I have a
personal vow never to pass up a CQ /QRP unless Fox hunting,
so we slugged out an exchange through some of the deepest,
longest QSB I've ever heard. Bud, your 1 watt from NY was
doing fine except for the fading.

So no Fox but one AK and five 2xQRP QSOs, three of them
off-duty Foxes. And W1EAT and I already worked each other
during FSFD, so on the whole I'd say it was a great night. :-)

Hope yours went well too!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"So... If she weighs the same as a duck... she's made of wood."

"And therefore?"

"A witch!"

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: tmh@world.std.com

Subject: [15089] TI85 Graphing Calculators

Message-ID: <Pine.SGI.3.95.970319094117.9143A-100000@world.std.com>

My brother recently got one of these for use in a math class. They're
pretty cool. These calculators have an input for connecting them to your
PC or to these "instruments" you can buy (temp. and pressure sensors,
etc.). Does anybody know what the technical specs. are for this input
jack? Is there an onboard A/D converter? Can it capture interrupts?

I'm wondering if the calculator has any QRP applications. Could you build
a plug-in module to make a graphing SWR analyser? How about as an
interface to a calculator-controlled radio?

One thing I thought of. There's a neat little satellite tracking program called STP (simple tracking program). A version on this calculator that ran in real-time could show you a map of the sky with the passing birds indicated. Fun for sitting out under the stars.

The new TI86 due out this summer will have 128k and also be programmable in Z80 assembler.

(Yes, I admit it, I'm drumming up excuses to get one...)

-- Tim N1PAZ

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: David Giles <vk5anb@dove.net.au>

Subject: [15050] VK field day - an experience

Message-ID: <332F3D49.4DDB2735@dove.net.au>

Hello everyone,

My first time on this list and I would like to say that I have been enjoying much of the comings and goings. Especially liked the debugging jobs done by Larry and Mike.

We in have just had our field day weekend (15/16 March). Known as the John Moyle field day in honour of one of our pioneer amateurs it is held on the 3rd weekend in March. This was my 4th time and after using 30 - 100W with my FT-747 and having much success, a change was needed. I decided to use QRP mainly because the FT-747 is now gone and my only HF radio puts out 10W SSB and CW. It is a SHIMIZU DENSHI SS-105 - a rare beast, 80-10m, SSB, CW, FM, analogue VFO, single conversion, about the size of a shoe box.

Camp was set up on a small hill on a friend's farm just north of Mt. Gambier. Antennas were an inverted V for 80m and 40m using a 5m length of timber attached to a 6m extension ladder. The dipoles were set perpendicular for extra stability, not necessarily to enhance performance. Weather was fair, overcast, mild winds, 18 degrees (Celsius not fahrenheit).

Conditions were good on both bands. I contested for the full 24 hours, operated for 16 hours, and got 2 more contacts than my previous best with 1/10th the power. Had 3 contacts with ZL stations on 80m which was a thrill. All this using SSB. I promise to use CW next year.

David Giles, VK5ANB
Mt. Gambier, South Australia

vk5anb@dove.net.au

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: cooper@gmpvt.com (Tom Cooper)
Subject: [15086] W1EAT fox tonite
Message-ID: <199703191401.JAA26411@web.gmpvt.com>

Hi Gang!

I was supposed to be the fox last night and appologize to anyone who spent their time looking for me, but hamming got pre-empted by parenthood and I had to take my daughter to the doctor.

I will be on TONIGHT from 7:30PM EST (0030Z) to 9:30PM (0230Z) around 7.038 and hope to work you then.

72

Tom W1EAT

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: kc4mhm@juno.com (ed miller)
Subject: [15064] WAS
Message-ID: <19970307.165851.4967.3.KC4MHM@juno.com>

30m was dead so waited until 0200z and heard WD4MSM 599 but could never get back to him. After about 20 minutes of trying I started looking around and found N9DD about 3K hz higher and worked him the first try. I wonder what the difference was? Fine business guys , only 49 to go. TKS.

73 from Ed KC4MHM

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: Jess Gypin <jessqrp@concentric.net>
Subject: [15068] WAS stuff.
Message-ID: <332F66D9.1EDD@concentric.net>

I lost the Email with the schedule (read deleted :-)) on the WAS schedule for 40 and 30 meters. Can I get a repost or a pointer to the

web apot wiht the information like now? I wanted to see if there was anyone still out there calling!

best
jess N0TFI

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [15066] XX/QRP
Message-ID: <199703190358.DAA16466@chuck.dallas.sgi.com>

Gang,

Well, since Saturday after I removed the CA curse from the antenna life has been much better. Great in fact. No wonder I was depressed wondering if I was being boycotted on the air due to low return rate. :-)

Tonight, started on 30M before the fox time and then down to 40M.

100% hit rate with KA8YOR/QRP, AB7IC/QRP on 30M and then N9DD/QRP (sorry Tom that I got the name wrong, was thinking of the other DD :-)) , WA9PWP/QRP, WD4MSM/QRP all in a less than an hour.

Another strange thing about his though is there is a residual effect that I do not understand that was not present before.

I do not have to move any adjustments on the MFJ-941C when going from 30M to 40M or back. This was not the case before. Usually that is an indication of some resistance between the antenna terminals, but I am getting out with 0.95 on 30M and 2.0W on 40M, so I don't think it is a dummy load. The old trusty OHR WM-1 shows no reflected power on either band even at the 100mW setting. Miracles do happen. The only thing different is the hot glue and I'll do some RF measurements and DC measurements on that stuff.

OK Cam beware the Texans are coming after you. Film at 11.

dit dit es gl to all
Chuck Adams K5FO adams@sgi.com DXCC=14
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: Jess Gypin <jessqrp@concentric.net>
Subject: [15057] Re: 38S in case and DX on 40 meters
Message-ID: <332F4834.13A1@concentric.net>

Joe Gervais wrote:

>
> Howdy Folks,
>
> Vic (rakefet@rakefet.com) wrote:
> >
> > Guys, please don't take this personally, but: why are you beating your
> > brains out with HORRIBLE antennas? <...>
> > Jess, a 30-meter attic dipole would probably do the same over the
> > Hamstick! I think it's cool to try to get out with a dummy load, too,
> > but once in awhile I like to actually _have_ a QSO.
>
> Now wait a sec, don't go slamming my old Hamstick as a
> dummy load. ;-) This Fox season I worked 20 Foxes with
> a resonant Hamstick and several raised radials. I'm not
> exactly the Uber-Hunter either, so the antenna must've
> been doing a reasonable job.
>
> Is my new Fox Raider HB vert better? Yeah. Did my old
> Hamstick get the job done? Heck yeah!
>
> Oh yes, I also worked QRP WAS in just over a year using
> the Hamstick. It ain't magic or even terribly efficient,
> but if tuned and given a reasonable ground it seems to
> radiate enough RF to make the occasional QSO. ;-)
>
> Sorry if you folks are sick of hearing about my Hamstick.
> Not bragging or anything, just trying to keep alive the
> notion that if it radiates enough for your needs, it's
> radiating enough. :-) Sure I still dream of a stacked
> array of 40m beams though....
>
> Cheers de AB7TT,
>
> -Joe, vole@primenet.com, AZ ScQRPions (Phoenix)
>
> "QRP, Unix, MST3K and Babylon 5: The Four Pillars of Nerdvana" - Me
Just to clarify to the list, I am using the Hamsticks mobile. I have
been running 30 meters QRP mobile to and from work lately just to see
what all the hub bub is about as I have never operated mobile CW B4.
Turns out that I can copy code at about 20-30 wpm at about 80% which is

enough to carry on a reasonable QSO. I have tried keying with the mike button and have tried the TE NE KE and brass racer in the car and really will have to do something else for mobile use. I am try one of the Ne KE's that are made by the same guy that made my TE NE KE...

Best
Jess
NOTFI

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: "Reder, Ronald" <Ronald.Reder@wang.com>
Subject: [15103] RE: 38S KeyThump - The Cure!??
Message-ID: <E15ABBF0D318CD011867800805F31305B0211B9@res02wnt245.corp.wang.com>

Dave Fifield wrote:

> ... Well, the thump is not due to C14 and earth currents ...

Unfortunately, I must agree. While this fix solved my problems, three others have tried it with no success. I can only conclude that I never had "The Thump", but only a thump.

My apologies for the false lead. I hope this turns out to be the source of "The Thump."

73, Ron KA1KCU

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: NilsBull@aol.com
Subject: [15114] Re: 38S T/R switch
Message-ID: <970319180058_-2107048649@emout19.mail.aol.com>

In a message dated 97-03-19 02:43:08 EST, Wayne/WB7WHI writes: "If I would learn to keep my mouth shut nobody would realize how stupid I be. . . "

Hey, that's my line. Actually, I was talking the other day with a co-worker about communications skills and she dubbed me as among the impaired. I accepted the nomination and went away to duct-tape some office doors open in a hotel.

Actually, I have been looking at the NC38S project as a tremendous learning experience. I've completely reevaluated my attitude toward digital stuff being used in RF apps. Well, ok, reevaluated it some. I haven't gotten around to tacking another small tx board on aft of Q1/TR1, but the more I think about it, the more I think that anything above maybe 1 watt is more than I

but must be careful of esthetic impact. Antenna objectives fall into two categories: 1.) for home, 2.) for portable/field operation;

- 1.) PERFORMANCE / LEAST VISUALLY INVASIVE / MULTI-BAND (if possible);
- 2.) PORTABILITY / PERFORMANCE / MULTI-BAND.

It will be fun comparing note with you if you're inclined.. maybe even sked. some evaluation contacts. Keep in touch, -and keep smiling! 72 =s=

"Seab" Lyon - AA1MY
Bethel, CT; FN-31-HJ
ARCI#9253; QRP-L #574
NEQRP#511; ARRL; QCWA

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: N9DD@aol.com
Subject: [15083] Re: Chasing Indiana !!
Message-ID: <970319070550_1781764277@emout05.mail.aol.com>

In a message dated 97-03-19 00:27:24 EST, you write:

<<
Wow - I heard N9DD on 30m and 40m but couldn't nab him - too close to some louder signals. >>

Hi John

Sorry I missed you. I called quite a bit on 30 with no answers and ended up spending quite a bit of time answering other's CQs and chatting a bit. 40 was much better, with everyone up looking for the Fox. It was crowded though! If you need a 30 Mtr QRP QSO, drop me a line and maybe we can set up a sked.

73,
Tom N9DD

n9dd@aol.com

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: Ed Pacyna <pacyna@auratek.com>
Subject: [15111] Re: Diode T/R Switching - Long
Message-ID: <3.0.16.19970319171026.2e9f6dc4@galaxy.auratek.com>

T/R switching with PIN diodes offers numerous benefits (e.g. cost

effective, speed, reliability, silence etc.) and need not be a determinant to performance.

The I in PIN stands for the intrinsic un-doped silicon layer (has very few charge carriers to support the flow of electrical current) between the PN regions and produces a very slow diode response resulting from charge storage. The parameter of interest is the charge lifetime (the period required to remove charge from the junction through recombination and migration). So far as RF energy is concerned, the PIN diode is a resistor whose value depends upon the dc bias current flowing. There are two different types PIN diodes (resulting from differences in the doping), One is for switching (R high, no bias and R low with bias) and the other is used as a current controlled resistor. PIN diodes are used in various VHF/UHF applications such as tunable attenuators, limiters, phase shifters, AM modulators and switches.

At lower frequencies the charge lifetime is short with regard to a single cycle of RF. The device in this case displays PN junction diode action and distortion occurs (non linear diode action). Most PIN diodes are for VHF and higher and often perform poorly at the lower end of the RF spectrum. Another consideration is that the RF current swing must not deplete the charge in the PN junction. To avoid this possibility, the carrier lifetime needs a be a least a minimum value at operating frequency which is determined by:

$$T = \text{RF signal current through the diode} / (2 \pi \times \text{frequency} \times \text{DC forward bias current}).$$

Although the presence of a PIN structure in the 1N4007 makes it seem attractive to some experimenters and manufacturers as a cheap alternative to RF specified PIN diodes. However, the 1N4007 was not intended for RF switching use and it has been demonstrated that the insertion loss when unbiased or reverse biased and the IMD performance when unbiased is inferior to RF specified PIN diodes (Ref: Exploring IMD in RF switching & tuning diodes, QST 12/94).

Being penny wise and dollar foolish and/or poor application technique has resulted in plenty of egg on face (including some commercial manufacturers). The purpose of a T/R switch is to isolate the receiver from any RF power (including mismatched conditions) during transmit and to provide a low loss, low distortion path during receive. Very high degrees of performance and isolation can be achieved through the selection of proper devices, circuit configuration (e.g. using series shunt diode combination, quarter wavelength sections, reverse bias) and operating conditions.

Ed, W1AAZ

>It had been written that:

>A PIN diode is built with a special characteristic. It acts like a regular
>diode, but its response to a rapidly varying signal is very sluggish.
>Thus, at DC, it looks like any ordinary diode, but at RF AC, it doesn't
>rectify very well. This is useful for RF switches because we don't want
>the switch to rectify our RF signal but we do want to be able to control
>switch conduction with DC currents. The 1N4007 used in the 38S rectifier
>happens to be built like a PIN diode.

>So, if we push a few milliamps of DC current through
>the diode all the time, then add a tiny amount of current from the RF
>signals coming in off the antenna, the diode will pass those RF currents
>without much apparent resistance. Add to this the fact that the PIN diode
>is just too slow to react to RF, and we have what looks to the RF signal
>like a switch in the closed position.

>

>Now, remove the DC current from the diode. No current is flowing and the
>voltage across the diode is zero. Now apply just a little voltage -- a few
>millivolts. Almost no current flows because you haven't come anywhere near
>the sharp bend in the exponential curve. The diode is behaving like a very
>large valued resistor, since increasing the voltage across it causes only a
>very small increase in current through it. A very large valued resistor is
>almost the same as an open switch, preventing signals from passing through
>it. Therefore, with no biasing current on the diode, the tiny RF signals
>from the antenna cannot pass through it to the receiver.

>

>In the 38S, a few milliamps of DC current are passed through the switch
>diodes in the forward direction in receive mode. The amount of current is
>limited by the series resistors R1, R2, and R3. In transmit mode, no
>current is passed through the diodes. Therefore, in receive, the diodes
>act like a closed switch, passing signals from the antenna to the receiver.
> In transmit, the diodes act like an open switch, cutting off signals.

>

>"But wait!", the clever person asks, "What about that huge transmit output
>signal -- many volts of it -- that appears on the antenna side of the
>switch?" "Won't that cause the diode to conduct, and pass at least part of
>the signal through to the receiver?"

>

>That's why the PIN diode is used. In its normal off-state during transmit,
>the diode just sits there not conducting. Suddenly, the transmit RF
>voltage rises at the beginning of the first cycle. The lazy PIN diode is
>too slow to react, and by the time it notices, the RF sine wave has gone
>back to zero again. Essentially, the PIN diode is too slow to work like a
>diode at RF frequencies, so the transmit RF doesn't turn it on very much.
>It needs some DC current flowing through it to turn on.

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
Subject: [15081] Re: Exclamation
Message-ID: <332F8F2A.4C92@vyh.fi>

CHARLES K BROWN wrote:

>
> The DGM Keyboard has the exclamation as dah dit dah dah dit
>
> Ken Brown, N4SO
> QTH Near Mobile, AL
> QRP-L #622
> n4so@juno.com

I would think the manufacturer just needed a key to assign to the
prosign

--
KN

73, OH2ZAZ

--

Arjen Raateland
Finnish Environment Institute
SAS Support
phone +358 9 4030 0457

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [15054] Re: Final Fox Finale
Message-ID: <199703190114.BAA16204@chuck.dallas.sgi.com>

Ah ha, the old let's keep 'em guessing game, huh? Some secret meeting
of the hounds in CA and they all have 49ers or Pixie I and II's working
each other LOS.

OK guys let's see much HAARP will overload the frontends. I've heard
wind machines and fog and other things being brought out of mothballs
just for this event. Outta be interesting Cam.

dit dit es gl

Chuck Adams K5FO adams@sgi.com DXCC=14
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: camqrp@cyberg8t.com (Cam Hartford)
Subject: [15101] Re: Final Fox Finale
Message-ID: <199703191739.JAA07410@key.cyberg8t.com>

>Ah ha, the old let's keep 'em guessing game, huh? Some secret meeting
>of the hounds in CA and they all have 49ers or Pixie I and II's working
>each other LOS.

>

>OK guys let's see much HAARP will overload the frontends. I've heard
>wind machines and fog and other things being brought out of mothballs
>just for this event. Outta be interesting Cam.

>

>dit dit es gl

>Chuck Adams K5FO adams@sgi.com DXCC=14

>http://reality.sgi.com/employees/adams_dallas/

>

>

Finally, the Final Fox Finale

Here's the scene:

Fog, wind machines, Pineapple express and Santa Anas all aligned, oiled,
poised to keep signals within the state border. Mt. St. Helens poised to
blow, thus attenuating HAARP sigs. Texas filter working better than
expected. XYL already on way to Tucson to do the secret mylar chaff thing..
00ps, can't let that secret out of the bag.

All pigs fed and ready to fly.

C U'all There, ready or not.

Cam N6GA

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: Philip Karras <ke3fl@access.digex.net>
Subject: [15090] RE: FISTS, cw organization
Message-ID: <Pine.SUN.3.96.970319100845.10895A-1000000@access5.digex.net>

For those who asked, FISTS is an organization for people trying to provide good examples of cw on the air & to help beginners.

Membership information may be obtained from:

Nancy Kott, WZ8C
POB 47
Hadley MI 48440-0047

nancy@tir.com or 73631.3654@compuserve.com

The International Morse Preservation Society
FISTS C.W. CLUB

Request membership form, information, and history.

72 & 73 de KE3FL/Phil
:-)

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: No Data Available <earwax@indy.net>
Subject: [15092] RE: FISTS, cw organization
Message-ID: <Pine.LNX.3.91.970319105303.3098B-100000@trixie.qrp.com>

Phil,

I think the FISTS group is a great bunch. Have you tried their homepage?

<http://n9nvv.qrp.com/~fists>

Bill Meyers, another guy on the list is the webmaster.

73 es etc,

Charlie, QRP-L #60

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [15099] RE: FISTS, cw organization
Message-ID: <199703191556.PAA17771@chuck.dallas.sgi.com>

Phil et.al.,

Their home page is:

<http://n9nvv.qrp.com/~fists/>

FYI

OH, and there is a picture page also and a number of the qrp-l group are there scattered about.

Chuck Adams K5FO adams@sgi.com DXCC=14
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: Bill Myers <bjmyers@arc.net>
Subject: [15105] RE: FISTS, cw organization
Message-ID: <1.5.4.16.19970319123946.1eb766f8@mail.arc.net>

At 10:08 AM 3/19/97 -0500, Philip Karras wrote:
>For those who asked, FISTS is an organization for people trying to
>provide good examples of cw on the air & to help beginners.

For those interested, FISTS maintains a homepage with downloadable forms, contest information, member lists, member pictures, club information, etc.

The address is <http://n9nvv.qrp.com/~fists> (note: the call sign is N 9 N V V)

The page is updated as I can get to it, normally once a week.

I will answer any questions people have about the club.

72/73's

--

Bill Myers KK4KF Grid - EM60rk
FISTS#2390 QRP-L#755 ARCI#9282 scQRPions#42
CQC#386 NE#508 AK/QRP#081
Snail Mail P. O. Box 178 Shalimar, FL 32579
e-mail <bjmyers@arc.net>
homepage <http://destin.nfds.net/~bmyers/>
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
<http://n9nvv.qrp.com/~fists> (That's N 9 N V V)

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [15115] Re: FS or FT: Stuff
Message-ID: <33336c5e.59815910@smtp.usit.net>

On Tue, 18 Mar 1997 06:56:13 GMT, mdwatt@usit.net (Marty Watt)
wrote:

>I have several items, trade preferred, but will consider all-cash
>offers:
>
>T1900 Toshiba laptop. 486/20, 4 meg RAM, 200MB harddrive, mono VGA
>LCD screen, 28.8 fax/modem included (pcmcia). DC input doesn't work
>correctly all the time, runs fine on charged batteries. Has power
>management software, Windows 3.1 and DOS 6.2. Power management
>software features "Resume", which allows instant power up, right
>where you left it (i.e., no boot up).

Errata: 25 MHz, 486sx, genuine Intel. Includes *2* PCMCIA modems
-- a PPI 28.8 with EZ port, and a generic 14.4.

>Briefcase-style carrying case for above.
>
>External monitor (color VGA), keyboard, mouse to convert above to
>desktop use.

Also have an Epson ECP/2 Stylus 400 inkjet printer.

>Heathkit 1-30MHz frequency counter, works, with manual.
>
>Heathkit VTVM (vacuum-tube volt meter) with RF probe, works, with
>>manual.
>
>Would like to trade for a superhet (single-signal) multiband QRP
>rig, VFO/good freq. coverage (i.e., all the CW band at a minimum).
>Would consider a QRO rig that can be turned down to QRP levels,
>although size is a premium. Prefer small, but would consider most
>any offers of trade.
>
>Contact me direct via e-mail, please!

These items are still available. Had two people express interest in
the laptop, but I couldn't work a comfortable deal with either
individual. If we can't all walk away happy, the deal shouldn't be
done -- the friendships here are more valuable than equipment
trades. Net result is the deals got cancelled.

Several asked how much the laptop was worth. To answer that, I need to explain a bit more about the DC input problem:

As for the DC problem. I've checked the AC/DC supply, and it's pumping out 18V as rated. Most of the time the batteries charge (I have two -- a NiMH and NiCd), but the NiMH battery is old and about shot, and I don't get too much time on it (about 10 minutes max). The NiCd was new a year ago, but NiCd are not good for this application. I don't know if the NiMH can be reconditioned or not. New OEM batteries (from the Toshiba web page) run around \$85 or so -- I'd think a clone would be cheaper than that, just like handheld batteries.

Bottom line -- I'm not sure what's wrong with the DC input. If I have a **reasonably** charged (i.e., not dead) battery, and boot up from the battery, I can then plug in the DC supply with no impact, and go as long as I like. I just can't boot from the DC supply -- the DC input light on the case begins flashing green (not good) about 1/4 the way through the boot cycle. It also won't boot in the "resume" mode. It **may** be a diagnostic failsafe of some sort, with no significant problem.

I haven't tried to open the case. I can't really figure out how to do so. The DC input is near the joint where the screen connects to the main case. I looked at one point at trying, and couldn't find enough "screws" to loosen! Of course, I don't have a tech manual (I do have all the operating manuals, though). I haven't contacted tech support at Toshiba to get an estimate on the cost.

I put the value of the computer itself, with modem and carrying case, if working perfectly, around \$800. I'm deducting \$300 from that to cover the DC repair and possibly a new battery. Looking to get about \$500 in cash/trade. Still desire a multi-band QRP/QRO rig, and can fudge about 20% or so on the value for something of interest (either adding to yours or deducting from mine -- works out to around a \$400 trade).

Would also be **very** interested in a used O'scope -- analog, dual trace, with probe. I'd think a 40MHz scope or higher would be about right, used. I can even throw in the RS ProbeScope if needed. I need to get back more to basics than the ProbeScope.

So, if you've got a single-signal receive multi-band QRP rig (Sierra, OHR, QRP+) or a spare O'scope with probes laying around, and want a laptop for the field (486sx/25MHz/4meg), let me know. I think I'm going to keep the Freq. Counter and VTVM with RF Probe

right now.

Have to travel to Indianapolis on Monday for a Tuesday interview.
Can try to arrange delivery along I-65 between Nashville and Indy.

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
~~~~~

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: Chris Cartwright <ccart@dns.vidtel.com>  
Subject: [15093] Re: Hamsticks and Mobile keys  
Message-ID: <Pine.LNX.3.93.970319105522.663C-100000@dns.vidtel.com>

On Tue, 18 Mar 1997, Jess Gypin wrote:

> enough to carry on a reasonable QS0. I have tried keying with the mike  
> button and have tried the TE NE KE and brass racer in the car and really  
> will have to do something else for mobile use. I am try one of the Ne

Been having great fun in the truck with the Whiterook paddles and the  
DX-70 and a hamstick. I just took the feet off the paddles and hot glued  
magnets to the bottom. The magnets came from some surface mount phone  
jacks I got from the "phone guy". Lots of "stick" for a little magnet.  
Just stuck it to the side of the rig and away we go. Worst thing is that  
I key lefthanded and "had" to put the key in the middle of the Suburban,  
had to put it in "backwards" so it would key "wrong" (thumb=dahs).

72, hpe to wrk u as 2 x /QRP/M

|                                           |  |                              |
|-------------------------------------------|--|------------------------------|
| -- Christopher Cartwright, Tech. Engineer |  | ccart@vidtel.com             |
| -- Phone 301.990.0735 N3XRV QRP-L #655    |  | ccart@erols.com              |
| -- QRP WAS 11/3 (w/c) QRP-ARCI #9271      |  | http://dns.vidtel.com/~ccart |

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997  
From: adams@chuck.dallas.sgi.com (Chuck Adams)

Subject: [15109] Re: Help please for the engineeringly impaired.  
Message-ID: <199703192139.VAA18654@chuck.dallas.sgi.com>

Jeff et.al.,

On the Pixie II. I have noted over the past few weeks or even a month that a number of people are in the process of or are going to build one.

May I suggest that each and every one of you look at the latest SPRAT. There is an updated version done by W1FB that has the 700Hz offset and an audio filter. This outta make it more useful and more fun to operate even with the additional parts required.

I don't know who has the rights to the schematic, G-QRP or W1FB, but it might be worth going after and I'll do the PostScript schematic.

I'm working on a PostScript to .jpeg translation scheme (read automated) that I can use on my web page. Let me try one and put the Pixie out there and have a bunch look at it and see if it will fly. Some surfers will have Adobe Acrobat reader that will do PostScript viewing, but it'll be a while before everyone has it.

George D., any suggestions?

FYI group

Chuck Adams K5FO CP-60 adams@sgi.com DXCC=14 40M 2W TT1340

[http://reality.sgi.com/employees/adams\\_dallas/](http://reality.sgi.com/employees/adams_dallas/)

"Life is too short for QRS." - W9WBL

From owner-qrp-1@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: "Carol N. Wright" <cnw@HiWAAY.net>

Subject: [15053] Re: NC38s: receive voltages and dead audio

Message-ID: <Pine.OSF.3.94.970318184609.28431C-100000@fly.HiWAAY.net>

On Tue, 18 Mar 1997, Marty Watt wrote: > Now, I can hear the TiCK  
sidetone on power up. Success, sort of. > > See, I now \*also\* hear a  
high-pitched squeal, constantly. Like > feedback. Now where would  
feedback come from? I dunno. I'm > willing to sit on my successes for a  
moment, and see what the > prevailing wisdom is. Would a shorted IRF510  
cause a squeal? How > does one verify a blown final PA? > > I can hear  
the TiCK sidetone through the squeal. It sounds > fuzzy/buzzerlike, but  
it's there. Perhaps will clean up a bit with > the squeal gone. But  
genuine progress is being made. > > For the record, the squeal I get is  
the same one I got after I > zapped (shorted out Q1, I believe).

>

Hey Marty and Gang,

This is the problem that I am having, the squeal. I don't have the tick mod, but the 5 watt mod. I've been trying to get the rig working with the help of some very nice QRP'ers on the group. Any suggestions? Also, Marty, if you get your squeal fixed, please post it to the list, or drop me an email. I'm sure that everyone on the list would like to know about the solve anyhow. Best 72 DE Matt, AE4JM

--

JCARC--ARCI 9178--ARRL--ARRL ORS--Ten Ten 66932--VP 2855--WAS

Matt Wright, ph. (205)228-6547, packet: AE4JM@K4BFT.#HSV.AL.USA.NA

email: cnw@HiWAAY.net snail mail:8679 Co. Rd. 19, Section, AL 35771

Rigs built: Ramsey mini rcvr-40mtrs, NC38S, SW30-40, NC49'er, NC40A with KC1

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [15077] Re: NC38s: receive voltages, and TR switch theory of operation, (long)

Message-ID: <332f7deb.126349403@smtp.usit.net>

On Tue, 18 Mar 1997 13:52:30 -0800, "Michael A. Gipe"

<mgipe@reliablemeters.com> wrote:

>The modification to the TR diode switch is simple and not hard to =  
>explain!=20

>I wrote it up in a previous post to the list, which I probably no longer  
>have. You should be able to find it in the QRP-L archives. Search =  
>back

>over the last two months looking for "NC38S: PIN diode mod" or =  
>variations

>on that theme. Basically, it uses a spare HC240 gate that was freed up =  
>by

>the Tick mod to drive the top side of the diode switch. Details of what=  
>to

>cut and what to add are in the posted instructions.

>

>I'll look here to see if I have a copy still undeleted anywhere, but =  
>your

>best bet is the QRP-L archives.

How does one go about searching these archives? On the web, only 2-3 days are listed, and the remainder is found by day (unsearchable). Is there a search engine somewhere that I haven't

found?

72 es 73 de=20  
Marty, KM7W

-----  
Jackson, Tennessee e-mail: mdwatt@usit.net  
http://www.public.usit.net/mdwatt  
"The Curmudgeon's Corner"  
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq  
~~~~~

From owner-qrp-l@Lehigh.EDU Wed Mar 19 18:04:36 1997
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [15070] Re: Oscilloscope
Message-ID: <19970318.213517.7735.5.kb0rol@juno.com>

OK, I will try it out. Thanks

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

On Mon, 17 Mar 1997 09:00:24 -0700 ji3m@maxwell.com (James R. Duffey)
writes:
>Brad - On Monday you wrote and asked-
>
>"I would like to use my O'scope to test my Special but I don't have
>the
>foggiest idea where to start (Got the scope at a swap fest for \$5 and
>it
>seems to work okay). Anyone out there with any suggestions? Even a
>simple one would be fun."
>
>To start with use it like you would a voltmeter. You can actually see
>the
>signal rather than just measure the magnitude from a meter. You may
>wish to
>look at the DC line for any noise or ripple if you are using an AC
>supply.
>Compare it to the line when powered by a battery. You can see both the
>AC
>and DC (offset) value of a signal. You can see gross distortion if it

72,

Gary Surrency AB7MY

S&S TAC-1(40&80m) and ARK30, OHR100 20m, AT-11 (QRO and QRP)

QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

Az ScQRPions